

L Number	Hits	Search Text	DB	Time stamp
1	61	boecker-monika.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 12:49
2	75	semrau-markus.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 12:49
3	40	blasey-gerhard.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 12:51
4	63	schambil-fred.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 12:51
5	22	jebens-heinke.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 12:52
6	94	lietzmann-andreas.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 12:53
7	101	block-christian.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 12:54
8	8	(tablet\$10 or pellet\$10 or briquet\$10 or shaped adj1 (solid or body or bodies) or solid adj1 (shape or block)) same (detergent or deterative or tenside) same (polyglycoside or polyglucoside or glycoside or glucoside or apg or alkylpolyglycoside or alkylpolyglucoside or plantaren or glucopon or glucopan or polyhydroxyfatty\$5 near3 amide) same (alkoxy\$5 or ethoxy\$5 or eo or neodol or tergitol or pluronic or plurafac or ethylene adj1 oxide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 13:07
9	8	(tablet\$10 or pellet\$10 or briquet\$10 or shaped adj1 (solid or body or bodies) or solid adj1 (shape or block) or pressed or compressed or compacted) same (detergent or deterative or tenside) same (polyglycoside or polyglucoside or glycoside or glucoside or apg or alkylpolyglycoside or alkylpolyglucoside or plantaren or glucopon or glucopan or polyhydroxyfatty\$5 near3 amide) same (alkoxy\$5 or ethoxy\$5 or eo or neodol or tergitol or pluronic or plurafac or ethylene adj1 oxide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 13:16
10	825	(tablet\$10 or pellet\$10 or briquet\$10 or shaped adj1 (solid or body or bodies) or solid adj1 (shape or block) or pressed or compressed or compacted) same (detergent or deterative or tenside or cleaning or washing) and (polyglycoside or polyglucoside or glycoside or glucoside or apg or alkylpolyglycoside or alkylpolyglucoside or plantaren or glucopon or glucopan or oligoglycoside or oligoglucoside or polyhydroxyfatty\$5 near3 amide) same (alkoxy\$5 or ethoxy\$5 or eo or neodol or tergitol or dobanol or pluronic or plurafac or ethylene adj1 oxide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 13:20
11	891	(tablet\$10 or pellet\$10 or briquet\$10 or shaped adj1 (solid or body or bodies) or solid adj1 (shape or block) or pressed or compressed or compacted) same (detergent or deterative or tenside or cleaning or washing) and (polyglycoside or polyglucoside or glycoside or glucoside or apg or alkylpolyglycoside or alkylpolyglucoside or plantaren or glucopon or glucopan or oligoglycoside or oligoglucoside or polyhydroxyfatty\$5 near3 amide or glucamide) same (alkoxy\$5 or ethoxy\$5 or eo or neodol or tergitol or dobanol or pluronic or plurafac or ethylene adj1 oxide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 13:20

12	169	(tablet\$10 or pellet\$10 or briquet\$10 or shaped adj1 (solid or body or bodies) or solid adj1 (shape or block) or pressed or compressed or compacted) same (detergent or deterative or tenside or cleaning or washing) and (polyglycoside or polyglucoside or glycoside or glucoside or app or alkylpolyglycoside or alkylpolyglucoside or plantaren or glucopon or glucopan or oligoglycoside or oligoglucoside or polyhydroxyfatty\$5 near3 amide or glucamide) same (alkoxy\$5 or ethoxy\$5 or eo or neodol or tergitol or dobanol or pluronic or plurafac or ethylene adj1 oxide) same ratio	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 13:47
13	154	(tablet\$10 or pellet\$10 or briquet\$10 or shaped adj1 (solid or body or bodies) or solid adj1 (shape or block) or pressed or compressed or compacted) same (detergent or deterative or tenside or cleaning or washing) and (polyhydroxyfatty\$5 near3 amide or glucamide) same (alkoxy\$5 or ethoxy\$5 or eo or neodol or tergitol or dobanol or pluronic or plurafac or ethylene adj1 oxide) same ratio	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/09/15 13:51

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030027740 A1	20030206	16	Laundry detergent and cleaning product tablets with improved disintegration properties	510/447
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020111286 A1	20020815		Surfactant granules with an improved dissolving rate	510/424
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20010051598 A1	20011213		Process for inhibiting gell formation of hydrated detergent tablets containing nonionic surfactant ethoxylates	510/446
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6566317 B2	20030520		Process for inhibiting gel formation of hydrated detergent tablets containing nonionic surfactant ethoxylates	510/298
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6521586 B1	20030218		Silicone foam control agent	510/466
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6479452 B2	20021112	7	Surfactant granules with an improved dissolving rate comprising alky and alkenyl sulfates	510/357
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5854189 A	19981229	6	Process for the production of break-resistant, storable multifunctional detergent tablets	510/224
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20010051598 A	20030520		Inhibition of gel-formation of tablet-form laundry detergent upon hydration, by utilizing anti-gelling agent e.g. alkyl polyglycoside, polymeric surfactant, and/or alkyl sulfate	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	510/421; 510/424; 510/470		Weuthen, Manfred et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	510/426; 510/428; 510/446		Weuthen, Manfred et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	510/447; 510/470; 510/505; 510/506		Morris, Timothy C. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	510/356; 510/421; 510/446; 510/470; 510/506; 510/535		Morris, Timothy C. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	510/347; 510/349; 510/361; 510/377; 510/507; 516/118; 516/120; 516/121		Hoogland, Jan et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	134/40; 510/424; 510/426; 510/446; 510/447; 510/492		Weuthen, Manfred et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	510/441; 510/446; 510/477; 510/478		Kruse, Hans et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8			ALLEN, C B et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PUB-NO: DE019509752A1

DOCUMENT-IDENTIFIER: DE 19509752 A1

TITLE: Compressed washing and cleaning agents with high powder
density

PUBN-DATE: September 19, 1996

INVENTOR-INFORMATION:

NAME	COUNTRY
KRINGS, PETER DR	DE
PASTURA, AMERIGO DR	DE
BEHLER, ANSGAR DR	DE
GREGER, MANFRED	DE
FOERSTER, THOMAS DR	DE
BOECKER, MONIKA DR	DE
SANDKUEHLER, PETER DR	DE
PFENNIG-DAHMEN, RENATE	DE

ASSIGNEE-INFORMATION:

NAME	COUNTRY
HENKEL KGAA	DE

APPL-NO: DE19509752

APPL-DATE: March 17, 1995

PRIORITY-DATA: DE19509752A (March 17, 1995)

INT-CL (IPC): C11D001/83, C11D017/00

EUR-CL (EPC): C11D001/74 ; C11D001/83, C11D017/06 , C11D017/00

ABSTRACT:

CHG DATE=19990617 STATUS=O>Prepn. of compressed washing and cleaning

agents

with high powder density comprises forming and compressing a premix of solid and liq. washing agent components in which the solid components comprise anionic surfactant, builders and alkalising agents, and the liq. component comprises nonionic surfactants of which more than 50% are fatty acid alkyl ester alkoxylates of formula $R<1>-CO_2-(AO)_m-R<2>$ (I) or (II), where $R<1> = 5-21C$ opt. branched, opt. satd. alkyl gp.; $R<2> = H$ or $1-6C$ opt. branched, opt. satd. alkyl gp.; $R<3>-R<5> = H$ or $-CO-R<6>$ with the proviso that $R<3>-R<5>$ may not all be H simultaneously; $R<6> = 5-21C$ opt. branched, opt. satd. alkyl gp.; AO = a 2-4C alkylene oxide unit; and m, n, o and p = 1-60, pref. 1-30 and partic. 3-12. Pref. the non-ionic surfactant component may be a mixt. of fatty acid alkyl ester alkoxylates of formula (I) alkylpolyglycosides (III) and/or polyhydroxy fatty acid amides (IV) in a ratio (I):(III)+(IV) of 1:1 to 9:1. The anionic surfactant may be in liq., pasty or solid form. Bleaching agents such as perborate monohydrate or Na percarbonate may be added as a solid component in amts. of 5-25 wt.% w.r.t. total compsn.. Bleach activators, enzymes, perfumes and colourants may be added subsequently to the extruded compsn., esp. where the enzyme and bleach activator are added as a separately compacted mixt. produced by extrusion or pelleting.

DERWENT-ACC-NO: 1996-426069

DERWENT-WEEK: 200001

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TITLE: Compressed washing and cleaning agents with high powder density - are obtd. by compressing premix of solid anionic surfactants, builders and alkalising agents and liq. fatty acid alkyl ester alkoxylate nonionic surfactant

INVENTOR: BEHLER, A; BOECKER, M ; FOERSTER, T ; GREGER, M ; KRINGS, P
; PASTURA, A ; PFENNIG-DAHMEN, R ; SANDKUEHLER, P

PATENT-ASSIGNEE: HENKEL KGAA[HENK]

PRIORITY-DATA: 1995DE-1009752 (March 17, 1995) , 1995WO-EP04950 (December 14, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 19509752 A1	September 19, 1996	N/A	016	C11D 001/83
ES 2136391 T3	November 16, 1999	N/A	000	C11D 017/06
WO 9629389 A1	September 26, 1996	N/A	033	C11D 017/06
EP 815196 A1	January 7, 1998	G	000	C11D 017/06
EP 815196 B1	August 11, 1999	G	000	C11D 017/06
DE 59602716 G	September 16, 1999	N/A	000	C11D 017/06

DESIGNATED-STATES: JP US AT BE CH DE DK ES FI FR GB GR IE IT LU MC
NL PT SE AT
BE DE ES FR GB IT NL AT BE DE ES FR GB IT NL

CITED-DOCUMENTS: 3.Inl.Ref; EP 266200 ; EP 586323 ; JP 04164999 ; JP 06108099
; JP 06116599 ; US 5382375

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DE 19509752A1	N/A	1995DE-1009752	March 17, 1995
ES 2136391T3	N/A	1996EP-0906756	March 8, 1996
ES 2136391T3	Based on	EP 815196	N/A
WO 9629389A1	N/A	1996WO-EP00994	March 8, 1996
EP 815196A1	N/A	1996EP-0906756	March 8, 1996
EP 815196A1	N/A	1996WO-EP00994	March 8, 1996
EP 815196A1	Based on	WO 9629389	N/A
EP 815196B1	N/A	1996EP-0906756	March 8, 1996
EP 815196B1	N/A	1996WO-EP00994	March 8, 1996
EP 815196B1	Based on	WO 9629389	N/A
DE 59602716G	N/A	1996DE-0502716	March 8, 1996
DE 59602716G	N/A	1996EP-0906756	March 8, 1996
DE 59602716G	N/A	1996WO-EP00994	March 8, 1996
DE 59602716G	Based on	EP 815196	N/A
DE 59602716G	Based on	WO 9629389	N/A

INT-CL (IPC): C11D001/74, C11D001/83, C11D017/00, C11D017/06

RELATED-ACC-NO: 1996-301401

ABSTRACTED-PUB-NO: DE 19509752A

BASIC-ABSTRACT:

Prepn. of compressed washing and cleaning agents with high powder density comprises forming and compressing a premix of solid and liq. washing agent components in which the solid components comprise anionic surfactant, builders and alkalisng agents, and the liq. component comprises nonionic surfactants of which more than 50% are fatty acid alkyl ester alkoxylates of formula $R_1-CO_2-(AO)_m-R_2$ (I) or (II), where $R_1 = 5-21C$ opt. branched, opt. satd. alkyl gp.; $R_2 = H$ or $1-6C$ opt. branched, opt. satd. alkyl gp.; $R_3-R_5 = H$ or $-CO-R_6$ with the proviso that R_3-R_5 may not all be H simultaneously; $R_6 = 5-21C$ opt. branched, opt. satd. alkyl gp.; $AO = a$ 2-4C alkylene oxide unit; and m, n, o and $p = 1-60$, pref. 1-30 and partic. 3-12.

Pref. the non-ionic surfactant component may be a mixt. of fatty acid alkyl ester alkoxylates of formula (I) alkylpolyglycosides (III) and/or polyhydroxy fatty acid amides (IV) in a ratio (I):(III)+(IV) of 1:1 to 9:1. The anionic surfactant may be in liq., pasty or solid form. Bleaching agents such as perborate monohydrate or Na percarbonate may be added as a solid component in

amts. of 5-25 wt.% w.r.t. total compsn.. Bleach activators, enzymes, perfumes and colourants may be added subsequently to the extruded compsn., esp. where the enzyme and bleach activator are added as a separately compacted mixt. produced by extrusion or pelleting.

ADVANTAGE - The washing and cleaning agents have a high powder density e.g. of 600-1000 g/l, good powder flow properties, easy solubility in water and good rinsability, without any loss in washing performance in comparison to conventional washing powders.

ABSTRACTED-PUB-NO: EP 815196B

EQUIVALENT-ABSTRACTS:

Prepn. of compressed washing and cleaning agents with high powder density comprises forming and compressing a premix of solid and liq. washing agent components in which the solid components comprise anionic surfactant, builders and alkalisng agents, and the liq. component comprises nonionic surfactants of which more than 50% are fatty acid alkyl ester alkoxylates of formula $R_1-CO_2-(AO)_m-R_2$ (I) or (II), where $R_1 = 5-21C$ opt. branched, opt. satd. alkyl gp.; $R_2 = H$ or $1-6C$ opt. branched, opt. satd. alkyl gp.; $R_3-R_5 = H$ or $-CO-R_6$ with the proviso that R_3-R_5 may not all be H simultaneously; $R_6 = 5-21C$ opt. branched, opt. satd. alkyl gp.; $AO = a$ 2-4C alkylene oxide unit; and m, n, o and $p = 1-60$, pref. 1-30 and partic. 3-12.

Pref. the non-ionic surfactant component may be a mixt. of fatty acid alkyl ester alkoxylates of formula (I) alkylpolyglycosides (III) and/or polyhydroxy fatty acid amides (IV) in a ratio (I):(III)+(IV) of 1:1 to 9:1. The anionic surfactant may be in liq., pasty or solid form. Bleaching agents such as perborate monohydrate or Na percarbonate may be added as a solid component in amts. of 5-25 wt.% w.r.t. total compsn.. Bleach activators, enzymes, perfumes and colourants may be added subsequently to the extruded compsn., esp. where the enzyme and bleach activator are added as a separately compacted mixt. produced by extrusion or pelleting.

ADVANTAGE - The washing and cleaning agents have a high powder density e.g. of 600-1000 g/l, good powder flow properties, easy solubility in water and good rinsability, without any loss in washing performance in comparison to conventional washing powders.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: COMPRESS WASHING CLEAN AGENT HIGH POWDER

DENSITY OBTAIN COMPRESS

PREMIX SOLID ANION SURFACTANT BUILD ALKALISED AGENT
LIQUID FATTY

ACID ALKYL ESTER ALKOXYLATED NONIONIC SURFACTANT

DERWENT-CLASS: A25 A97 D25 E17

CPI-CODES: A10-E07; A12-W12A; A12-W12B; D11-A01; D11-A03; D11-B03;
E10-E04G;

E10-E04K; E10-G02G1; E10-G02H1;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

H401 H402 H481 H482 H581 H582 H583 H584 H714 H721

H722 H723 H8 J0 J011 J012 J013 J2 J271 J272

J273 L660 L699 M210 M211 M212 M213 M214 M215 M216

M220 M221 M222 M223 M224 M225 M226 M231 M232 M233

M262 M272 M281 M282 M283 M311 M312 M313 M314 M315

M321 M322 M323 M331 M332 M333 M340 M342 M343 M383

M391 M392 M393 M416 M620 M781 M903 M904 Q273 Q616

R034 R036 R038

Markush Compounds

199643-A0601-U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; G1558*R D01 F47 D11 D10 D23 D22 D31 D73 D42 D50 D82 D83 D84

; R00351 G1558 D01 D23 D22 D31 D42 D50 D73 D82 F47 ; H0000 ; H0237*R

; P0055 ; P0975*R P0964 F34 D01 D10 ; P8004 P0975 P0964 D01 D10

D11 D50 D82 F34 ; M9999 M2153*R ; M9999 M2200 ; M9999 M2186 ; K9325

Polymer Index [1.2]

018 ; P1445*R F81 Si 4A

Polymer Index [1.3]

018 ; ND01 ; ND07 ; N9999 N5867 ; N9999 N6144 ; Q9999 Q7034*R ;

Q9999 Q7045 Q7034 ; Q9999 Q9110

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-134298